

CLAIMS

1. A hinge device comprising an arm and two head pieces mounted to swivel/pivot on the ends of the arm around respectively one axis, the head pieces are respectively joined to revolve with one of two belt pulleys which are circumscribed by a common traction belt on one circumferential surface, whereby one of the belt pulleys is not circular.
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2. The hinge device according to claim 1, wherein in terms of the arm, the head pieces are swiveling/pivotable between two end positions, whereby in a first of these end positions, the spacing distance of a first point of incidence, at which the traction belt meets with the first belt pulley, from the first rotational axis of a first belt pulley is smaller than the spacing distance of a second point of incidence, at which the traction belt meets with the second belt pulley, from the second rotational axis of the second pulley, and that in the second end position, the spacing distance of the first point of incidence from the first rotational axis is greater than the spacing distance of the second point of incidence from the second axis.
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3. The hinge device according to claim 1, wherein the non-circular belt pulley is elliptical.
4. The hinge device according to claim 1, wherein one of the belt pulleys is circular.
5. The hinge device according to claim 1, wherein both belt pulleys are elliptical.
6. The hinge device according to claim 5, wherein both belt pulleys have the same circumferential length.

7. The hinge device according to claim 6, wherein in a position of the first belt pulley, in which the points of incidence of the belt on the first belt pulley are the points of intersection of the long axis with the circumference of the ellipse, the points of incidence on the other belt pulley respectively lie on the points of intersection of the short axis with the circumference.
8. The hinge device according to claim 1, wherein the arm is angled and the traction belt is guided between the belt pulleys by two rollers.
9. The hinge device according to claim 1, wherein one of the head pieces is mounted to a door and the other head piece is mounted to a body of a motor vehicle.
10. The hinge device according to claim 4, wherein both belt pulleys have the same circumferential length.
11. The hinge device according to claim 2, wherein the arm is angled and the traction belt is guided between the belt pulleys by two rollers.
12. The hinge device according to claim 3, wherein the arm is angled and the traction belt is guided between the belt pulleys by two rollers.
13. The hinge device according to claim 4, wherein the arm is angled and the traction belt is guided between the belt pulleys by two rollers.
14. The hinge device according to claim 2, wherein one of the belt pulleys is circular.
15. The hinge device according to claim 2, wherein the non-circular belt pulley is elliptical.

16. The hinge device according to claim 5, wherein the arm is angled and the traction belt is guided between the belt pulleys by two rollers.
17. The hinge device according to claim 6, wherein the arm is angled and the traction belt is guided between the belt pulleys by two rollers.
18. The hinge device according to claim 3, wherein one of the belt pulleys is circular.
19. The hinge device according to claim 8, wherein one of the head pieces is mounted to a door and the other head piece is mounted to a body of a motor vehicle.
20. The hinge device according to claim 2, wherein one of the head pieces is mounted to a door and the other head piece is mounted to a body of a motor vehicle.